



United States Department of Agriculture  
Animal and Plant Health Inspection Service  
Plant Protection and Quarantine



**APHIS List of Hosts and Plants Associated with *Phytophthora ramorum***

Revision dated 1 August 2005

This list is constantly being updated.

The most current version is posted at: <http://www.aphis.usda.gov/ppq/ispm/pramorum>

**Proven Hosts Regulated for *Phytophthora ramorum***

These may be regulated in whole or in part – see “Updates” at:

<http://www.aphis.usda.gov/ppq/ispm/pramorum/>

Scientific Name (38)	Common Name
<i>Acer macrophyllum</i>	Bigleaf maple
<i>Aesculus californica</i>	California buckeye
<i>Arbutus menziesii</i>	Madrone
<i>Arctostaphylos manzanita</i>	Manzanita
<i>Calluna vulgaris</i>	Scotch heather
<i>Camellia spp.</i>	Camellia - all species, hybrids and cultivars
<i>Castanea sativa</i>	Sweet chestnut
<i>Fraxinus excelsior</i>	European ash
<i>Griselinia littoralis</i>	Griselinia
<i>Hamamelis virginiana</i>	Witch hazel
<i>Heteromeles arbutifolia</i>	Toyon
<i>Lithocarpus densiflorus</i>	Tanoak
<i>Lonicera hispidula</i>	California honeysuckle
<i>Maianthemum racemosum</i> (formerly <i>Smilacina racemosa</i> )	False Solomon's seal
<i>Parrotia persica</i>	Persian ironwood
<i>Photinia fraseri</i>	Red tip photinia
<i>Pieris floribunda</i> and <i>Pieris floribunda x japonica</i>	Mountain Andromeda and it's hybrid with Japanese Pieris
<i>Pieris formosa</i> and <i>P. formosa x japonica</i>	Himalaya Andromeda, and all cultivars of the hybrid with Japanese Pieris
<i>Pieris japonica</i>	Japanese Pieris
<i>Pseudotsuga menziesii</i> var. <i>menziesii</i>	Douglas fir and all nursery grown <i>P. menziesii</i>
<i>Quercus agrifolia</i>	Coast live oak
<i>Quercus chrysolepis</i>	Canyon live oak
<i>Quercus falcata</i>	Southern red oak

<i>Quercus ilex</i>	Holm oak
<i>Quercus kelloggii</i>	California black oak
<i>Quercus parvula</i> var. <i>shrevei</i>	Shreve's oak and all nursery grown <i>Q. parvula</i>
<i>Rhamnus californica</i>	California coffeeberry
<i>Rhododendron</i> spp.	Rhododendron (including azalea) – all species, hybrids and cultivars
<i>Rosa gymnocarpa</i>	Wood rose
<i>Sequoia sempervirens</i>	Coast redwood
<i>Syringa vulgaris</i>	Lilac
<i>Taxus baccata</i>	European yew
<i>Trientalis latifolia</i>	Western starflower
<i>Umbellularia californica</i>	California bay laurel, pepperwood, Oregon myrtle
<i>Vaccinium ovatum</i>	Evergreen huckleberry
<i>Viburnum x bodnantense</i>	Bodnant Viburnum
<i>Viburnum plicatum</i>	Doublefile Viburnum
<i>Viburnum tinus</i>	Laurustinus

### Regulated Plants Associated with *Phytophthora ramorum*

(These are regulated only as nursery stock)

Scientific Name (37)	Common Name, Date & Source of Report
<i>Abies grandis</i>	Grand fir – June 03 (1)
<i>Acer pseudoplatanus</i>	Planetree maple – April 05 (3)
<i>Adiantum jordanii</i>	California maidenhair fern – May 05 (5)
<i>Aesculus hippocastanum</i>	Horse chestnut – Dec 03 (3)
<i>Arbutus unedo</i>	Strawberry tree – Dec 02 (7)
<i>Calycanthus occidentalis</i>	Spicebush – May 05 (5)
<i>Clintonia andrewsiana</i>	Andrew's clintonia bead lily – May 04 (5)
<i>Corylus cornuta</i>	California hazelnut – Dec 02 (5)
<i>Drimys winteri</i>	Winter's bark – July 04 (3)
<i>Dryopteris arguta</i>	California wood fern – May 04 (5)
<i>Fagus sylvatica</i>	European beech – Dec 03 (3)
<i>Hamamelis mollis</i>	Chinese witch-hazel – Jan 05 (3)
<i>Kalmia latifolia</i>	Mountain laurel – Fall 02 (3)
<i>Laurus nobilis</i>	Bay laurel – July 04 (3)
<i>Leucothoe fontanesiana</i>	Drooping leucothoe - Oct 03 (3)

<i>Magnolia stellata</i>	Star magnolia – Jan 05 (3)
<i>Magnolia x loebneri</i>	Loebner magnolia – Jan 05 (3)
<i>Magnolia x soulangeana</i>	Saucer magnolia – Jan 05 (3)
<i>Nothofagus obliqua</i>	Roble beech – Dec 04 (3)
<i>Pittosporum undulatum</i>	Victorian box – Dec 02 (6)
<i>Pyracantha koidzumii</i>	Formosa firethorn – Apr 04 (9)
<i>Quercus cerris</i>	European turkey oak - Feb 04 (3)
<i>Quercus rubra</i>	Northern red oak – Nov 03 (8)
<i>Rhamnus purshiana</i>	Cascara – Dec 02 (4)
<i>Rubus spectabilis</i>	Salmonberry – Dec 02 (4)
<i>Salix caprea</i>	Goat willow – July 04 (3)
<i>Taxus brevifolia</i>	Pacific yew – May 03 (5)
<i>Taxus x media</i>	Yew – June 05 (8)
<i>Toxicodendron diversilobum</i>	Poison oak – Dec 02 (4)
<i>Viburnum davidii</i>	David Viburnum - Oct 03 (3)
<i>Viburnum farreri</i> (= <i>V. fragrans</i> )	Fragrant Viburnum – Oct 03 (3)
<i>Viburnum lantana</i>	Wayfaringtree Viburnum – Oct 03 (3)
<i>Viburnum opulus</i>	European cranberrybush Viburnum – Oct 03 (3)
<i>Viburnum x burkwoodii</i>	Burkwood Viburnum – Oct 03 (3)
<i>Viburnum x carlcephalum</i> x <i>V. utile</i>	Viburnum – Oct 03 (3)
<i>Viburnum x pragense</i>	Prague Viburnum – Oct 03 (3)
<i>Viburnum x rhytidophylloides</i>	Alleghany or Willowood Viburnum – Sept 04 (2)

<sup>1</sup> California Department of Food and Agriculture, Sacramento, CA

<sup>2</sup> Oregon Department of Agriculture. Salem, OR

<sup>3</sup> Department for Environment, Food, and Rural Affairs, UK

<sup>4</sup> Everett Hanson, Oregon State University, Corvallis, OR

<sup>5</sup> David Rizzo, University of California – Davis, CA

<sup>6</sup> Matteo Garbelotto, University of California – Berkeley, CA

<sup>7</sup> (Reserved)

<sup>8</sup> Plant Protection Service, Wageningen, Netherlands

<sup>9</sup> Canadian Food Inspection Agency, Ottawa, Ontario, Canada

<sup>10</sup> (Reserved)

<sup>11</sup> (Reserved)

### Rationale for Lists:

#### Host Plants for *Phytophthora ramorum*:

Host plants are naturally infected associated plants added upon completion,

documentation, review and acceptance of traditional Koch's postulates. Some are regulated in part (such as redwood and Douglas fir); others are regulated in their entirety (such as tanoak and western star flower). Details on regulated plants and articles can be found via links to "Phytophthora ramorum 7 CFR 301.92" and "Recent Modifications to Phytophthora ramorum Regulations" at: <http://www.aphis.usda.gov/ppq/ispm/sod>

The plants listed in the original Interim Rule dated 14 February 2002 were adapted from a review and evaluation of lists of regulated plants from other regulatory agencies.

**Plants Associated with *Phytophthora ramorum*:**

Associated plants are those reported found naturally infected and from which *P. ramorum* has been cultured and/or detected using PCR (Polymerase Chain Reaction). For each of these, traditional Koch's postulates have not yet been completed or documented and reviewed. These reports must be documented and reviewed by PPQ before they will be listed.

**Regulation at the genus level:**

For either list, a listed plant may be revised to regulate at the genus level to ensure appropriate and effective inspection in quarantine areas, regulated nurseries, and regulated articles to mitigate the spread of *P. ramorum*. An example is when the number of individual species, hybrids, or cultivars listed or to be listed is determined to prevent appropriate and effective inspection or regulation.